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Mrs. Ogata, JICA's president came to KITA to meet Dr. Kohno and others and discussed on how to hold out "the hands on training" to meet the needs of each participated country.

Message from President of KITA

"SUE" Has Landed in Kitakyushu



The dinosaur "SUE", a Tyrannosaurus with a giant physique, has arrived in our city. After her/his death at the age of 27, 67 million years elapsed when she/he was discovered by a volunteer archeologist, Susan Hendrickson, in South Dakota in the U.S.

With a body length of 13 meters and weighing 6 tons, it is speculated that she could have roared around at the speed of 18 km per hour, about the same speed as a marathon runner now. Surprisingly, there is some evidence that indicates specific giant dinosaur species have evolved into birds over the course of tens of millions of years (?).

67 million years is incredibly ancient days! Compared to that, Homo sapiens appeared on this planet only about 100 thousand years ago. Additionally, our civilization just began a few thousand years ago, so we are talking in completely different figure when we speak of millions of years.

Fortunately, human beings have gotten a higher level of intelligence. It took only 240 years from the time of the industrial revolution for the rapid development of technologies. We have succeeded gloriously and now we are witnessing an age of the enrichment of human civilization in all fields, including the automotive, aeronautical, nuclear energy and information technologies.

On the other hand, pursuing only economic achievement has resulted in a number of cases where concerns for environmental conservation have been carelessly neglected. It is a blunt fact that we humans have polluted and spread destruction on our precious Globe at an accelerating speed. This fact becomes obvious when we learn that even seals in the Arctic Ocean are contaminated with mercury, lead and PCB.

KITA has accumulated technologies and knowledge for environmental conservation learned during more than 100 years of industrialization in Kitakyushu, and consolidated this know how in CP (Cleaner Production) technology. They have been passed, in turn to peoples in developing countries through training offered by JICA and other organizations. The number of participants KITA has received is over 4,000 from 118 different countries for these 25 years. In addition, KITA has dispatched the experts to be engaged in cooperative efforts for the transfer of CP technology as well as air, water and waste treatment technologies to 14 different countries.

KITA hopes to contribute to the protection of the planet's environment from pollution through the act of providing our knowledge and expertise to countries in need.

Dr. Takuo Kohno

Grand Commemorative Events Celebrating the "25th Anniversary of KITA's Commencement"

Date & Time December 15, 2005 (Thurs.) 15:00-20:00

Location Kitakyushu International Conference Center (Kokurakita-ku)

To celebrate the 25th anniversary of its commencement, KITA organized various commemorative events and ceremonies, including a panel discussion, a picture panel exhibition, a greeting card exhibition and thank-you party on Dec. 15 last year.

Despite severely cold weather on that day, the center was filled with over 300 earnest attendees, including many staff personnel and local citizens.

Celebration Ceremony

Greetings of President Kohno

On the occasion of the 25th anniversary of KITA's commencement, Dr. Kohno expressed sincere appreciation to all supportive bodies such as enterprises of various kind of industries, academia and administrative organization.

Rapid population growth and expansion of economic activities have forced our planet to confront serious environmental problems. Promotion of cleaner production and the 3Rs (Recycle, Reuse, Reduce) are currently needed to realize sustainable industrial development and construction of a recycling-based society.

Kitakyushu possesses advanced industrial technologies accumulated over the last 100 years of industrial development, assuring continuous use of environmental technologies that have overcome numerous problems. The mission of KITA is to transfer these knowledges and experiences to all countries in need.

Congratulatory Addresses by Guests

Mr. Sueyoshi, Mayor of Kitakyushu and Mr. Kasahara, Director of JICA Kyushu (Kyushu International Center) gave congratulatory speeches expressing their hopes and encouragement for KITA in its ongoing activities.



Dr. Kohno, President of KITA expressed sincere gratitude to Mr. Hamamoto, Director, General Superintendent of Nippon Steel Yawata Works

Commemorative Lecture

A lecture entitled "What I Saw and Felt as a Goodwill Ambassador" was given by Mrs. Misako Konno, a famous actress who is playing an active role as a Goodwill Ambassador for the United Nations Development Programme.

In her lecture, she passionately spoke about international aid to developing countries, appealing that we "learn things from people just as we do when raising children, and that we give assistance that is suitable to each country." The audience filling the Center was profoundly drawn into her talk.

Panel Discussion

Two representative panelists Mr. Valut (Thailand) and Ms. Ivy (Philippine), former JICA / KITA course participants made presentation on the recent development which was clearly demonstrating that they have been currently playing active roles in their home countries by making full use of the training received at KITA.

Coordinator Prof. Dr. Hirono commented that the successes of former participants in their home countries are the most thrilling achievement for KITA and a great encouragement in future activities.



Commemorative Lecture by Mrs. Misako Konno



Panel Discussion by Ms. Ivy, Mr. Valut and Prof. Dr. Hirono

News & Report

The latest news from the former participants

KITA marked its 25th anniversary last year. KITA has progressed receiving over 4000 participants from 118 countries for these 25 years.

The following photos show the vigorous activities of former participants at their home countries based on the result of training course.



Name **Mr. Rajesh Manandor**
Country **Nepal**
Place of work **Kathmandu Metropolitan City**
Training Course **Solid Waste Management for Nepal(Country training 2004)**
Task **Construction of semi aerobic landfill site in Sisdol**



Name **Mr. Charlton S. Inao**
Country **Philippines**
Place of work **Metals Industry Research and Development Center**
Training Course **Automatic Control (Group training in 2004)**
Task **Development of new spinning machine**



Name **Mr. Yasser Mohamed**
Country **Egypt**
Place of work **Egyptian Environment Affairs Agency**
Training Course **Industrial Pollution Control Management(Group training in 2003)**
Task **Egyptian pollution abatement project**



Name **Mr. Chana Thitisak**
Country **Thailand**
Place of work **Electricity Generating Authority**
Training Course **Automatic Control (Group training in 2004)**
Task **Construction of the electric power station for new airport**



Name **Mr. Kento Taro**
Country **Colombia**
Place of work **Bolivariana University**
Training Course **Air Pollution Source Monitoring Management (Area training in 2004)**
Task **Assistant Professor for environmental engineering**



Name **Mr. Varut Phimolmas**
Country **Thailand**
Place of work **Ta Luang plant of Siam Cement Co., Ltd.**
Training Course **Practical Production Management(Group training in 2002)**
Task **Quality control & improvement**

Development of Capabilities in the Chinese Steel Industry for Managing the Environment, Resources and Energy

Purpose of Training Course

This training course was held with the aim of acquiring and improving capabilities for managing the environment, resources and energy in the Chinese steel industry through a transfer of Japanese technology for two months from Oct. 17 to Dec. 16, 2005.

Dr. QI Yuanhong, a professor at the Central Iron and Steel Research Institute, took part as team leader, and 9 participants from 7 different steelworks plants in China with an annual crude steel production of more than 5 million tons attended the training course as well.

Team Leader's Personal Comment

Central Iron and Steel Research Institute
Vice Director, Professor
Team Leader Dr. QI Yuanhong

On behalf of the Chinese steelworks training team, I would like to express heartily thanks to the course leader, Mr. Kudo, as well as all persons involved who have taken care of us during our stay. We were deeply moved by the friendship and sincerity offered by the Japanese people, and at the same time we respect your serious efforts toward your work.

The two months of training left a great impression engraved in our hearts and will have a significant impact on our life and work in the future. The training taught us the concepts and technology of CP (Cleaner Production) systematically. At the same time, we were able to thoroughly enjoy the beautiful natural scenery of Japan, its unique traditions, and dynamic modern culture as well.

China has become a major producer of crude steel in 2005, sharing one third of the world's gross production. However, we must recognize the inevitability that the Chinese steel industry will encounter issues such as a lack of resources and energy, and also environmental

destruction in the course of its development. Therefore, we must introduce the concept of CP into our industry, maximize resources and energy efficiency and minimize environmental burdens. Unless we are successful in these endeavors, the Chinese steel industry cannot maintain a healthy state and sustain its development. The path that Japan has walked and the experience that has been acquired along the way offer us valuable guidance.

There is a significant technological gap in environmental management and energy conservation between the Chinese steel industry and that in Japan. During training, we experienced the first-hand realization that the Japanese steel industry has made great achievements in these areas. We must admit this gap to bravely tackle its elimination. We must maximize the improvement of resource and energy efficiency in steel production and reduce the dispersion of pollutants in order to transform the Chinese steel industry into a clean and environmentally friendly industry and sustain its healthy development.

We recognize that our responsibility is grave and there is a long journey to our success. A number of difficult and complicated tasks await us after our return home. First of all, we must widely promote the concept of CP, introduce the advanced experience and related technologies that Japan offers, and apply the knowledge and technologies we have learned to actual production practices. At the same time, we will play the role of ambassador for future China-Japan exchanges and cooperation, building a bridge between the two nations.

In closing, with high praise again, all of the training participants would like to extend our sincere gratitude and respect to JICA and KITA, as well as to all of our friends in Japan.

Thank you.



All participants from steel industry in China together with Course Leader and others



All participants at Show Room of Yawata Works

KITA-method Composting Project in Surabaya City, Indonesia

1 Preface

In 2004, KITA developed a method for composting kitchen garbage in Surabaya City as part of the transfer of technology for the production of high-quality compost from domestic waste. KITA further developed a technology that can compost domestic waste 7-day cycles generated from the largest market in Jawa Timur. KITA has also initiated the application of the same method and technology in Denpasar (Bali), resulting in a steady diffusion of the "KITA Method Composting Project" in Indonesia.

2 Project Details

(1) Production of Native Microorganisms

Optimizing waste composting requires native microorganisms (NM). They are gathered and cultivated at a local site for use. No special microorganisms are used except ones that can be easily obtained locally. Producing requisite quantity of microorganisms at the initiation of composting eliminates the need for subsequent production of them for a long period of time. Various composting methods use microorganisms produced in this way.

(2) Composting Kitchen Garbage by Utilizing Composting Containers (Takakura Home Method (THM))

Kitchen garbage generated from about 1,200 households in the model area of Surabaya City was composted by using THM. The amount of waste collected in the model area was reduced by half.

(3) Operation of Compost Center for 1,000 Households

PUSDAKOTA, an environmental NGO group, established the compost center that is operated by utilizing the THM and the Takakura Susun Method (TSM). Bad smell is cut off and the composting is complete in 5 weeks.

(4) Composting at the Largest Market in Jawa Timur

The Cleansing Department and Market Administration Department of Surabaya City established the compost center to recycle vegetable waste discarded from the largest vegetable market in Jawa Timur. The facility is intended to raise the environmental recognition of customers.

(5) Establishment of Compost Center in Denpasar

THM has been currently implemented in 250

households, and operation of the compost center modeled after PUSDAKOTA was initiated at the beginning of 2006. In addition, a facility for composting kitchen garbage and garden waste discarded from resort hotels is also planned in 2006.

(6) Composting Technology Training (Setting Up of Manual)

In cooperation with PUSDAKOTA in Surabaya City, a training course for composting technology was established. A training manual was also specially prepared to teach composting technology in 4 days. The training is offered regularly with the participation of NGO groups, and administrative and citizen groups in various areas in Indonesia.

3 Conclusion

KITA possesses abundant experiences for getting cooperation of citizens and administration, which is an indispensable aspect of composting activities. KITA is planning to transfer the KITA Method composting project to various cities, which can then be easily adopted by other cities.

Contributed by Tetsuya Ishida
Environmental Cooperation Center, KITA



Image: A scene from a training session for transferring composting technology

Close-up of Two Training Courses

Computerized Machine Control

Purpose of Course

This course is most appropriate for mechanical and electrical engineers enhance their ability to carry out the operation and maintenance of various automated machinery and mechatronics equipment.

Duration : November 6,2006 ~ March 20,2007

Qualification for participants

Mechanical and electrical engineers who are interested in studying the computerized machine control and mechatronics with more than 3years of occupational experience in the field.

Number of Participants : 5

Position of Kitakyushu

The word ' Mechatronics ' is the word combining mechanics and electronics made in Japan.

Kitakyushu is the best place for learning Mechatronics. Because the well known manufacturer of industrial robot is located there who is one of the inventor of mechatronics.

Practical training with many stimulating exercises

This course offers various exercises including computer simulations for the participants to stimulate

their interest in the training course.

For example:

6-day computer simulation of control systems using MATLAB/SIMULINK.

5-day programming exercise of Micro Computer which includes assembling a toy robot arm with 5 degree of freedom and making it move automatically by use of PIC(Peripheral Interface Controller).

6-day training on the basics of automatic control through the programming and application of PLC (Programmable Logic Controller) for mini-plant.

contributed by Masataka Taniguchi, Course leader



Industrial Wastewater Treatment Technique II

Purpose of Course

The aim is to train participants in effective treatment technologies for the prevention and improvement of environmental pollution caused by polluted water, thus enabling them to make a contribution to the promotion of environmental protection in their native countries.

Duration : July 17 - November 25, 2006

Number of Participants : 8

Course Objectives

Water pollution prevention measures

Basic theory of wastewater treatment

Basic plan and design of wastewater treatment facilities

Operation and maintenance management of wastewater treatment facility

Participants will acquire basic knowledge of the above subjects.

Features of Course

- curriculum emphasizing practical learning

Participants will be instructed concerning the current situation of wastewater pollution and learn about improvements effected through wastewater analysis activities. They will experience the importance of wastewater treatment.

The training session for the basic design of wastewater treatment facilities will be carried out using a specific

case. The plan will be developed through group discussions and under the guidance of the lecturers. Plans developed using CAD will be evaluated by each of the lecturers at a presentation meeting.

Advantages of holding the course in Kitakyushu

The City of Kitakyushu had a bitter experience with wastewater pollution in the past. Industries, academia, administrators and citizens in the city united to solve the problem and, in turn, the city now receives high praise for its accomplishments.

There are a number of related experts and plant facilities in the city, and also substantial system for accepting participants is in place.

contributed by Toshikazu Arakawa, Course leader



News & Report

Training course on air pollution prevention technology for engineers from the oil sector in Kuwait

Training course was held in Kitakyushu for 2 weeks, from Nov. 28 to Dec. 9 in 2005, receiving 7 participants from Kuwait organized by Arabian Oil Company / KITA.

The course included the history of overcoming pollution in Kitakyushu, environmental laws and ordinances, prevention technology of dust, SOx, NOx, Dioxin and practical skill of sampling / analyzing. There were also visits to Kyushu Electric Power Co. Ltd., Nissan Motor Co. Ltd., and Nippon Steel Corp. to observe how clean production was realized as well as a visit Eco-Town to observe contribution for the recycling-oriented society.

The participants showed a strong concern on the following matters as the good lessons for Kuwait in near future.

- 1.Experiences in Kitakyushu to overcome heavy pollution problem
- 2.Cleaner Production rather than End of Pipe solution
- 3.Environmental Laws and Ordinances system, particularly "Pollution load tax"
4. Well organized monitoring system
5. Eco-Town for promotion of recycling

(contributed by Mr. Dhari H. A., Kuwait Oil Company and N. Tanaka, KITA)



I N F O R M A T I O N

Homepage of KITA is renewed

Since Homepage of KITA was inaugurated in April.1998, there have been over fifty thousand accesses both from home and overseas favorably.

Homepage of KITA has been renewed to the fulfilled

information since Feb.2006,

We are looking forward to your contacting with us.

URL: <http://www.kita.or.jp>

Address of KITA

Kitakyushu International Techno-cooperative Association (KITA ; kaita)

International Village Center 2/4F,1-1-1,Hirano,Yahata-Higashi-Ku,Kitakyushu City,805-0062 JAPAN

URL : <http://www.kita.or.jp>

Administration Bureau

PHONE +81-93-662-7171 FAX +81-93-662-7177

e-mail info@kita.or.jp

81:country code for japan 93:area code

Training Division

PHONE +81-93-662-7172(7173) FAX +81-93-662-7177

e-mail info@kita.or.jp

Technical Cooperation Division

PHONE +81-93-662-7174 FAX +81-93-662-7177

e-mail info@kita.or.jp

KITA Productivity Cooperation Center

PHONE +81-93-662-7174 FAX +81-93-662-7177

e-mail info@kita.or.jp

KITA Environmental Cooperation Center

PHONE +81-93-662-7770 FAX +81-93-662-7782

e-mail tenso2f@kita.or.jp

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All correspondence should be addressed to : Kitakyushu International Techno-cooperative Association(KITA)

International Village Center, Kitakyushu 1-1-1 Hirano, Yahata-higashi-ku, Kitakyushu City, Japan 805-0062

Phone : +81-93-662-7174 FAX : +81-93-662-7177 E-mail : info@kita.or.jp Internet address : <http://www.kita.or.jp>